

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/004060

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/50 A61P35/00 A61P9/10 A61P3/10 A61P25/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, BIOSIS, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>BOMPARD GUILLAUME ET AL: "Membrane targeting of protein tyrosine phosphatase PTPL1 through its FERM domain via binding to phosphatidylinositol 4,5-biphosphate." JOURNAL OF CELL SCIENCE, vol. 116, no. 12, 15 June 2003 (2003-06-15), pages 2519-2530, XP002319141 ISSN: 0021-9533 abstract page 2524, column 2, line 16 - page 2526, column 1, line 26 Discussion</p> <p style="text-align: center;">----- -/--</p>	7,8,12, 13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*G\* document member of the same patent family

Date of the actual completion of the international search

28 February 2005

Date of mailing of the international search report

14/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Vanhalst, K

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/12276 A (MEDICAL RESEARCH COUNCIL; DOWLER, SIMON; CAMPBELL, DAVID; GRAY, ALEXAN) 14 February 2002 (2002-02-14) cited in the application abstract claims 1-4,11,13,19,43,46,47 -----	14-17
A	US 5 821 075 A (GONEZ ET AL) 13 October 1998 (1998-10-13) abstract claims 1-12 -----	1-6,9-11
A	WO 03/011901 A (UNIVERSITY OF DUNDEE; ALESSI, DARIO; VAN AALTEN, DAAN; THOMAS, CHRISTI) 13 February 2003 (2003-02-13) cited in the application abstract -----	1-17
T	KIMBER WENDY A ET AL: "Interaction of the protein tyrosine phosphatase PTPL1 with the PtdIns(3,4)P2-binding adaptor protein TAPP1." BIOCHEMICAL JOURNAL, vol. 376, no. 2, 1 December 2003 (2003-12-01), pages 525-535, XP002319142 ISSN: 0264-6021 the whole document -----	1-17
A	WO 01/57240 A (AGY THERAPEUTICS, INC; MELCHER, THORSTEN; KASK, KALEV) 9 August 2001 (2001-08-09) abstract -----	1-17
A	KIMBER W A ET AL: "Evidence that the tandem-pleckstrin-homology-domain-containi ng protein TAPP1 interacts with Ptd(3,4)P2 and the multi-PDZ-domain-containing protein MUPP1 in vivo" BIOCHEMICAL JOURNAL 01 FEB 2002 UNITED KINGDOM, vol. 361, no. 3, 1 February 2002 (2002-02-01), pages 525-536, XP001057247 ISSN: 0264-6021 abstract -----	1-17
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>DOWLER S ET AL: "Identification of pleckstrin-homology-domain-containing proteins with novel phosphoinositide-binding specificities" BIOCHEMICAL JOURNAL 01 OCT 2000 UNITED KINGDOM, vol. 351, no. 1, 1 October 2000 (2000-10-01), pages 19-31, XP001096514 ISSN: 0264-6021 abstract</p> <p>-----</p>	1-17
A	<p>MARSHALL AARON J ET AL: "TAPP1 and TAPP2 are targets of phosphatidylinositol 3-kinase signaling in B cells: Sustained plasma membrane recruitment triggered by the B-cell antigen receptor" MOLECULAR AND CELLULAR BIOLOGY, vol. 22, no. 15, August 2002 (2002-08), pages 5479-5491, XP002319143 ISSN: 0270-7306 abstract</p> <p>-----</p>	1-17

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1-6, 8, 10, 12, 16, 17 (partially)  
because they relate to subject matter not required to be searched by this Authority, namely:  
Claims 4, 8, 10 and 12: Rule 39.1(iv) PCT - Diagnostic method practised on the human or animal body  
Claims 16 and 17: Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0212276	A	14-02-2002	AU 7648801 A EP 1385877 A2 WO 0212276 A2 US 2004106148 A1	18-02-2002 04-02-2004 14-02-2002 03-06-2004
US 5821075	A	13-10-1998	AU 683299 B2 AU 7644394 A CA 2170515 A1 EP 0789771 A2 JP 9510861 T NZ 273219 A WO 9506735 A2 US 6066472 A	06-11-1997 22-03-1995 09-03-1995 20-08-1997 04-11-1997 26-06-1998 09-03-1995 23-05-2000
WO 03011901	A	13-02-2003	WO 03011901 A1 GB 2393725 A	13-02-2003 07-04-2004
WO 0157240	A	09-08-2001	AU 3659101 A CA 2398250 A1 EP 1255854 A2 JP 2003521247 T WO 0157240 A2 US 2003092071 A1 US 2004072275 A1 US 2001049348 A1	14-08-2001 09-08-2001 13-11-2002 15-07-2003 09-08-2001 15-05-2003 15-04-2004 06-12-2001

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